



Power & Heat

- **Ash handling**
- **Fuel feeding**





Reliable and flexible services

Laitex Oy is a Finnish full-service technology company. We offer conveyor solutions for heavy process industry, along with auxiliary equipment and services.

We are a global player exporting mainly to Europe, Russia and South America. Our headquarters and two production units are located in Lappeenranta, Finland. We also have a sales office in Helsinki, Finland and a subsidiary in St. Petersburg, Russia.

Our promise is to be a reliable and flexible partner having strong focus to customers and services. Having more than 30 years of experience gives us confidence to manage even the most complex projects. Our own engineering department can tailor all of our solutions based on the customers needs.

Feel free to challenge us to provide a solution for your needs : www.laitex.fi

PRODUCTS AND SERVICES

We have a wide range of solutions for multiple industry fields:

- Energy
- Pulp, Paper and Forest
- Chemicals, Minerals and Bio-Fuels
- Waste Handling
- Services and spare parts

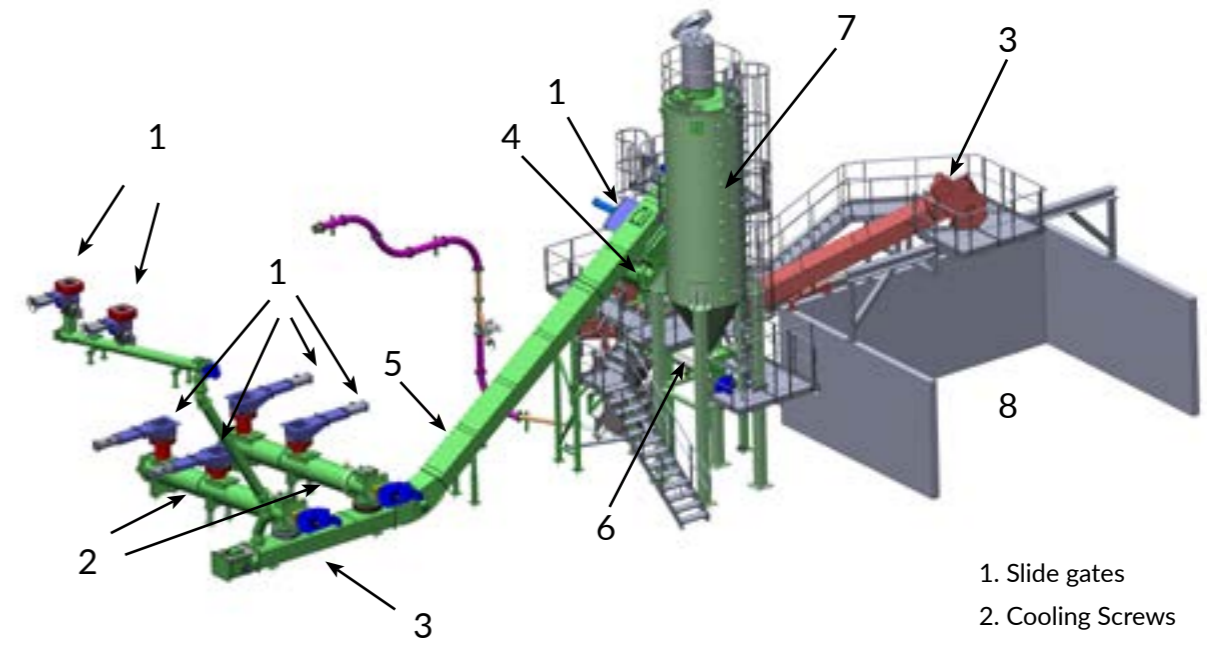
We design and manufacture our equipment ranging from individual products to systems and full scope deliveries.

We also provide after-sales service with planned and preventive maintenance as well as supply of fast delivery spare parts for customer needs. Complete spare part packages, equipment inspections and maintenance planning is also available as a part of our services.

LAITEX IN FIGURES

Established in **1986** / Approximately **60 employees** / Three locations: **Lappeenranta, Helsinki and St. Petersburg** / Certificates: **ISO 9001 and ISO 3834-2**

We take the environment into account in all of our operations. Our efficient and optimised processes save natural resources and electricity – and bring cost savings for our customers.



- 1. Slide gates
- 2. Cooling Screws
- 3. Scarper conveyor
- 4. Drum screen
- 5. Pneumatic conveyor
- 6. Screw conveyor
- 7. Sand Silo
- 8. Collecting

Ash handling solutions- Power and heat

Ash handling equipment are part of the Laitex Oy core solutions. We are used to supply different solutions all over the world without any restrictions of size, boiler type or used fuel. The biggest ash handling solutions has been supplied for +1000MW plants.

Cooling conveyors are one of Laitex specialty. Product portfolio including cooling screws and chain conveyors.

Ash handling solutions for fly ash handling from economizers or bag filters include ash collection and transport up to the ash silo as well as unloading the ash from the silo to truck.

Ash handling product portfolio also includes a drum screen for sand sieving and crushers for sludge or bottom ash handling.

BENEFITS:

- Reliability
- Availability
- Low maintenance cost
- Power consumption
- Quality
- Life cycle

COOLING CONVEYORS

For cooling we provide the solutions by Chain conveyor or Screw Conveyor (U-type & Pipe-type). Conveyors are always tailored for customer needs. For design of cooling conveyor we have professional tools to simulate and calculate the optimal cooling capacity needed.

Contact us and ask our recommendations and references for ash cooling!



Equipment for ash handling:



Rotary valves for dosing



Cooled chain conveyors



Cooled screw conveyors



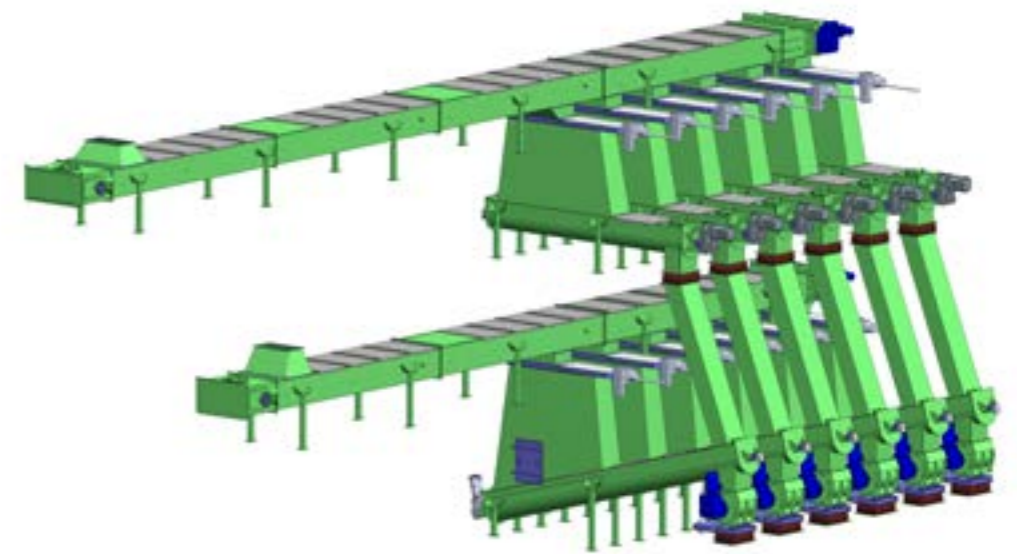
Elevators



Drum screen



Crusher



Fuel feeding solutions for biomass - Power and heat

Fuel feeding equipment are part of Laitex Oy core solutions. Long experience and knowledge of different fuels makes our solutions reliable and cost effective to combine with almost any type of boilers.

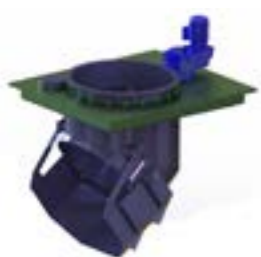
Accurate dosing is always important in this type of solutions. Laitex rotary valves and screw conveyors are designed to be reliable with high availability.

Fuel feeding line solutions will be designed to fit next to the boiler with different styles. Don't hesitate to ask references from previous projects!

BENEFITS:

- Reliability
- Availability
- Low maintenance cost
- Power consumption
- Quality
- Life cycle

Equipment for fuel feeding:



Fuel spreader to fuel Silo



Silo reclaimers



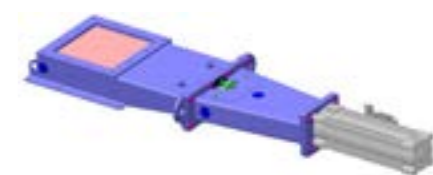
Chain conveyors, Screw conveyors



Metering screws (divide the fuel flow for different lines)



Rotary valves



Slidegates

Conveyor equipment Power & Heat

Conveyor solutions including the different equipment to handle the process of fuel flow. All equipment has been developed to have long life cycle, high availability and low maintenance cost.



Rotary valve:

For dosing material flow. In the fuel feeding line a possible back fire can be blocked by Laitex Rotary valves.

Sizes available from rotor diameter 200mm up to 1200mm.

Different types available.



Metering screw:

To divide material flow for two separate lines. Metering screw can be used for dosing.



Chain conveyor:

From 400mm up to 2000mm width and will be able to convey the material even in 40-degree steep inclination.

Cooling and heating types available.



Screw reclaimer:

For silo discharge. Cost effective, reliable and powerful equipment for fuel feeding line.

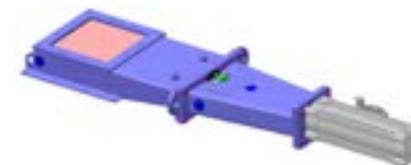


Screw Conveyor:

U- or Pipe type screw conveyors from 200mm up to 1000mm diameter.

Different types:

Double screw, paddle screw, cooling- and heating screw are available.



Slide gates:

Slide gates can be made for any size of inlets or outlets.

Gates can be operated manually, pneumatically or by motors.



Elevator:

For lifting material vertically upwards.

Elevators are available for different fuel and material types up to 60m height.

Capacities up to +500m³/h.



Special equipment

Laitex product development department is able to design special equipment for customer needs.

Contact us with your request!



Full scope solutions

In full scope solutions, we take care of the entire process for the customer scope definition, engineering, manufacturing, installation, commissioning including site related support, personnel training and after sales services. When so desired, civilworks, constructions and other related tasks can be included in the scope of supply.

As turn key solutions partner for the project, project management is smooth and responsibilities are clear. Full scope delivery allows us to ensure that the equipment work

seamlessly together, while minimising shutdowns and maximising our customers profitability.

We take care in our full scope project that solution lifecycle and maintenance demands are considered already in early phases of engineering and design. This enables us to provide reliable and energy efficient solutions which are always in the core of our full scope solutions among with risk management.

With a full scope solution the customer can enjoy having a single source for all service requirements.

Full scope enables our customers to focus more on their core business.

LIFECYCLE SERVICES & SUPPORT

We offer lifecycle services for conveyor systems used in material handling. Our after-sales services include planned and preventive maintenance as well as supply of spare parts.

We deliver a wide range of high-quality spare parts directly to the customer's site. Our service solutions also cover the installation and commissioning of our conveyor equipment.

ELECTRIFICATION AND AUTOMATION

Laitex can take care of the electrification and automation, which will save time and effort for the customer. This could be include for example the following:

Process and building electrification, instrumentation, automation, fire alarm system, lighting system, surveillance and HVAC systems.



LAITEX

CONVEYING SOLUTIONS

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